PDR RID Report

Date Last Modified 5/1/95

Originator Charles Wende/Vanessa Griffin **Phone No** 202-358-0748/202-358-0754

Organization NASA/HQ/YF

E Mail Address cwende@mtpe.hq.nasa.gov, vgriffin@mtpe.hq.nasa.gov

Document PDR

RID ID PDR 365
Review SDPS
Originator Ref SDPS-1
Priority 1

Section **Page** **Figure Table** NP1-1 through

Category Name Interfaces, I&T **Actionee** Project (PGS - Kempler/Hunolt)

Sub Category Algorithm I&T

Subject Algorithm developers/ECS interface

Description of Problem or Suggestion:

The technical interfaces and the roles and responsibilities between the algorithm developers and the ECS were not presented at the SDPS PDR. Furthermore, no status, open issues, or plan to complete the above work were presented.

Originator's Recommendation

These interfaces and roles and responsibilities need to be clearly defined, documented, and agreed to prior to CDR. Appropriate documentation should be distributed to the affected community.

GSFC Response by: **GSFC Response Date**

HAIS Response by: T. Suhrstedt **HAIS Schedule**

HAIS R. E. J. Martin **HAIS Response Date** 4/27/95

The principal goal of the Integration and Test (I&T) with ECS of the science software is to test the Production Readiness of the Science Software to ensure that it runs to normal completion repeatedly over the normal range of data inputs and run-time conditions and executes without interfering with other S/W or DAAC operations. Other subordinate goals include (1) refinement of the science software I&T Process, (2) demonstration of the portability of the science software, (3) determination of production resource requirements, and (4) to test SCF <--> DAAC interfaces and ancillary data input interfaces.

The strategy that has been followed to date includes development of the SDP Toolkit (TK) interface to promote science software portability and the I&T with ECS. TK4 was recently delivered, and TK5 is to be delivered later this year.

Level 4 requirements defined for the science software I&T tools have been defined. Evaluation of COTS is presently underway.

Lastly, efforts are underway to develop a well-defined, flexible I&T process that incorporates plans for multiple pre-production deliveries and I&T of the science software. A strawman approach to the I&T of the diverse Science Data Production Software Systems has been published in the Science User's Guide, Part 4 (205-CD-002-001) and a White Paper entitled Operations Concept for Science Software I&T (194-WP-925-002), both available on EDHS.

A Science Software I&T Workshop was held April 18-19, 1995. Participation numbered near 100, with attendees from 6 DAACs, 9 instrument teams, ESDIS, ECS, UARS, Pathfinders and IV&V. This workshop resulted in: 1. Discussions between Instrument Team (IT) and DAAC personnel concerning the I&T roles and responsibilities; 2. Plans for future discussion on this subject to finalize IT/DAAC working agreements (MOU), and; 3. Dates defined by which MOUs are to be complete (DAAC dependent). 100% of those that responded to the exit survey rated the workshop as a success.

Status **Closed** **Date Closed** **5/1/95** **Sponsor** **Marinelli**

****** **Attachment if any** ******